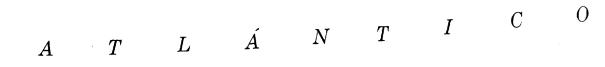
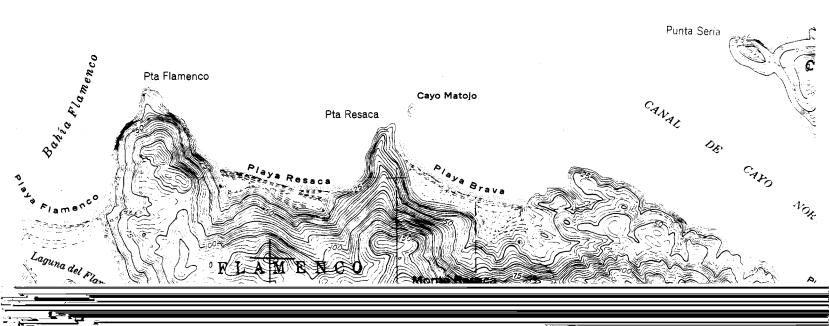
# PUERTO RICO CULEBRA AND ADJACENT ISLANDS 1970000 YARDS 2 220 000 YARDS Cayo Ballena 🗷 Cayo Tiburón ayos Geniquí ್ಧ Cayo Botella Laguna de Molino Punta del Este Pta Muleros Cabeza de Perro

### UNITED STATES DEPARTMENT OF THE NAVY HYDROGRAPHIC OFFICE

17′30′′





Alcarraza

Los Gemelos

> Piedra Stevens

N

C E A

Cayo Yerba

Pta Tamarindo Grande

Pta Tamarindo Grande

Pta Tamarindo Grande

Pta Tamarindo Grande

I Mono

Cayo Ratón

Punta Cruz &

Punta Melones

## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

65° 24′ 18° 22′ [----Alcarraza <u>@</u>" Los Gemelos O

Cayo Lobito

Cayo Lobo

El Mono

Cayo Yeri

Cayo Ra

Cayo Rate

17/30/

2 210 000; YARDS

955 000 VARDS

22′30

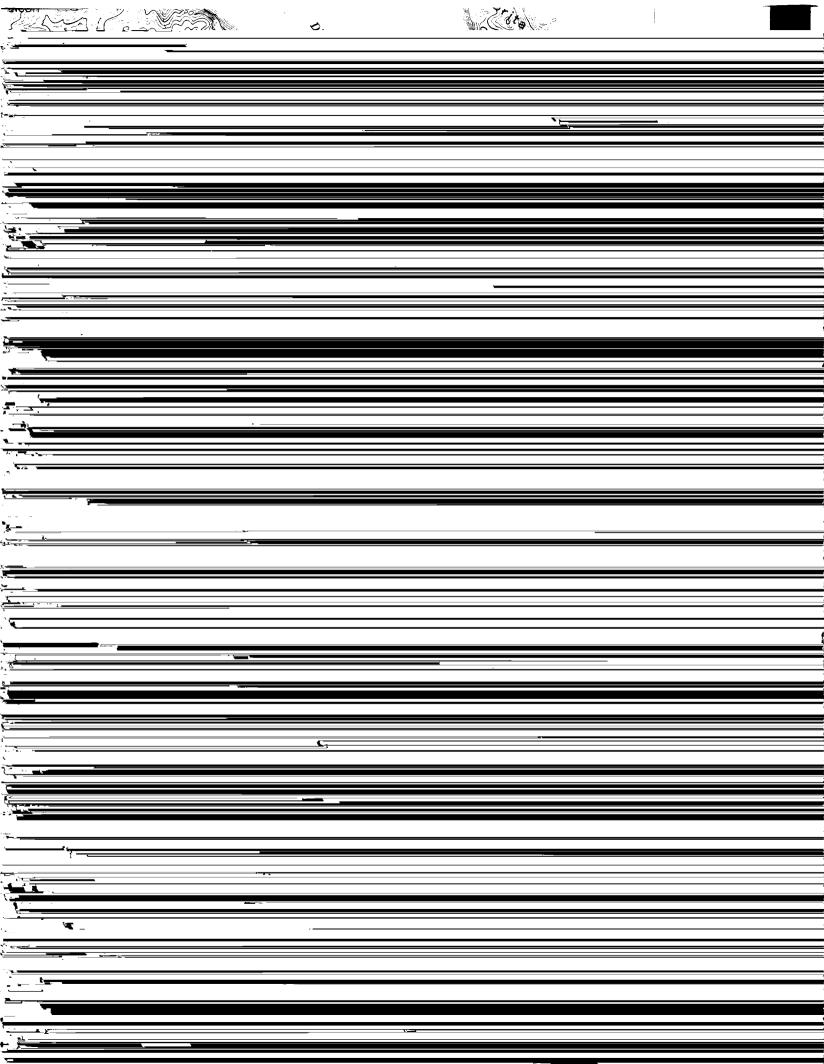
Mapped by the Geological Survey 1948

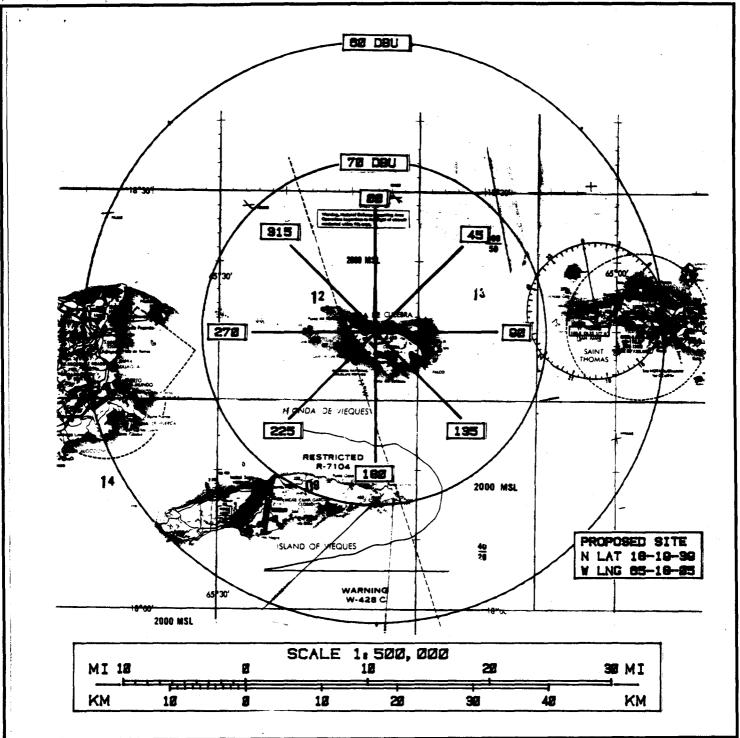
MAGNETIC NORTH

APPROXIMATE MEAN DECLINATION, 1948









### PROPOSED CONTOURS

THE MAP IS A REDUCED TERMINAL AERONAUTICAL CHART OF PUERTO RICO AND THE U.S. VIRGIN ISLANDS.

CH 293A IS ALLOCATED TO CULEBRA, PR SINCE CULEBRA IS AN ISLAND ITS LIMITS ARE CLEARLY SHOWN IN THIS EXHIBIT. THE PROPOSED 70 DBU (3.16 MV/M) CONTOUR WILL CLEARLY COVER THE ENTIRE ISLAND.

### EXHIBIT #4

NEW FM APPLICATION
CHANNEL 293 - CLASS A
8 KW - 202 METERS HAAT
CULEBRA, PUERTO RICO

OCTOBER 21, 1991

## BROMO BROADCAST TECHNICAL CONSULTANTS COVINTUNICATIONS St Simons Island, Georgia Washington, D.C.

#### RADIO FREQUENCY RADIATION STUDY AND STATEMENT

This Radio Frequency Radiation Study is being conducted to determine whether this proposal is in compliance with OST Bulletin Number 65, dated October 1985, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby contributing stations and utilizes the appropriate formulas contained in the OST Bulletin.

The proposed antenna system will be mounted with it's center of radiation 48 meters (157.5 feet) above ground and operate with an effective radiated power of 6 kW in both the horizontal and vertical planes. In addition WSAN-FM operates with a 12 bay antenna on the same tower. The WSAN antenna system is mounted with a center of radiation of 75 meters (246.1 feet) above ground and operates with a power of 50 kW in both planes.

Using a worst case calculation we find that the proposed facility will contribute 0.0872 mW or 8.7% of the ANSI limit at two meters, the height of an average person, above the ground at the base of the tower. WSAN contributes 0.4577 mW or 45.8% of the allowable limit. Therefore the combined proposed facility and WSAN will contribute 0.5449 mW or 54.5% of the allowable ANSI limit. Since this is below the defined limit of 100%, this proposal is believed to be in compliance with OST Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will post warning signs in the vicinity of the tower, warning of potential radiofrequency radiation hazards at the site. The applicant will also reduce power of the facility or discontinue operation to limit human exposure to levels less than 1.0 mW/cm² should anyone be required to climb the tower for maintenance or inspection.

RFR STATEMENT

EXHIBIT #5

NEW FM APPLICATION
CHANNEL 293 - CLASS A
6 KW - 202 METERS HAAT
CULEBRA, PUERTO RICO

OCTOBER 21, 1991

BROMO BROADCAST
TECHNICAL CONSULTANTS
CONTIVIUM TGATIONS
St Simons Island, Georgia Washington, D.C.

### FM BLANKETING CONTOUR CALCULATION

The blanketing contour of NEW - CULEBRA PR is determined using the following formula as defined in §73.318 of the Commission's Rules:

D= 0.394 \* SQR(P)
where D= distance to blanketing contour in km
P= ERP in kW of the station

The ERP of NEW - CULEBRA PR is 6 kW yeilding a blanketing contour OF 0.97 km from the tower.

While it is the experience of this firm that very little, if any blanketing interference will be experienced by the grant of this proposal, NEW - CULEBRA PR will follow the guidelines of §73.318 and good engineering practice to satisfy blanketing complaints.

### BLANKETING STATEMENT

EXHIBIT #5A

NEW FM APPLICATION

CHANNEL 293 - CLASS A

6 KW - 202 METERS HAAT

CULEBRA, PUERTO RICO

OCTOBER 21. 1991

BROMO
TECHNICAL CONSULTANTS
CONTITUTICATIONS
St Simons Island, Georgia
Washington, D.C.

### ALLOCATION STUDY FOR CH 293A CULEBRA. PR USING PROPOSED SITE AS REFERENCE

RE 18 65	EFERENCE 19 39 N 18 05 W	Curre	CLASS A ent rules spacing NEL 293 -106.5 MH	s z	DISPLA DATA SEARCH	Y DATES 09-25-91 10-22-91
		CH# CITY LAT LNG				
•	ALOPEN AD >PRM	293A Culebra 18 18 18 65 18 06 Maria Del Carmen Av	PR 180 5 0.000 kW viles	.7 2.49 0M 1.5 RM6940	115.0 - 71.5	-112.51 *
	LI CN	296A Charlotte Ama 18 21 33 64 58 18 Sandy Isle Broadcas hannel 287B per D86	3 1.350 kW 46 sting, Inc.	7M 21.8	19.3	4.03
	WNIKF! LI H	293B1 Arecibo 18 28 28 66 43 40 Kelly Broadcasting	า 195กก 🗚 🗕 🗕 8	2M 94.2	88.9	8.59
	WVIS LI C	291B Christianste 17 44 51 64 50 1 V. I. Stereo Commu	1 9.000 kW 27	2M 50.3	42.9	11.90
	WVIS.C	291B Christianste 17 44 51 64 50 1 V. I. Stereo Commu	d VI 142 1 50.000 kW 28 nications C	.5 80.90 8M 50.3 BPH9106	69.0 42.9 27JF	11.90
	WMEG LI C	295B Guayama 18 06 48 66 03 0 Guayama Broadcasti	7 25.000 kW 59	4M 51.5	42.9	

CH 293A ALLOCATION STUDY

EXHIBIT #6

NEW FM APPLICATION

CHANNEL 293 - CLASS A

6 KW - 202 METERS HAAT

CULEBRA, PUERTO RICO

OCTOBER 21, 1991

